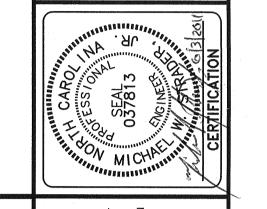
## HYDE COUNTY (FY 09 CDBG)

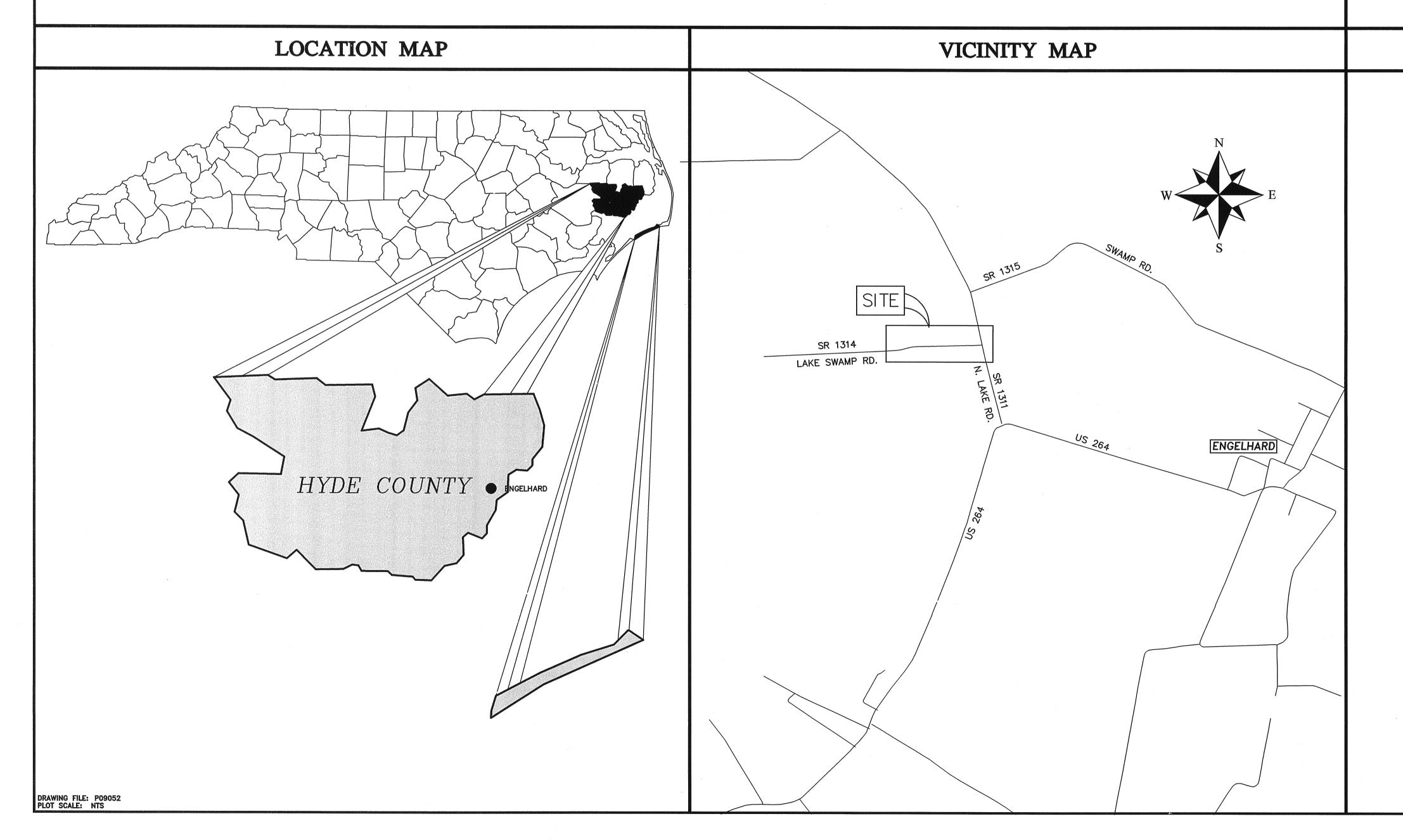
LAKE SWAMP ROAD (SR 1314)

ENGELHARD, HYDE COUNTY, NC



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## GENERAL NOTES

- GENERAL NOTES:

  1. PHYSICAL FEATURES AND TOPOGRAPHIC INFORMATION ARE BASED ON FIELD SURVEY PREFORMED BY QUIBLE & ASSOCIATES, P.C., IN MARCH 2011.

  BENCHMARK AND CONTROL POINT LOCATIONS ARE SHOWN ON THE DRAWINGS. HORIZONTAL POSITION IS BASED NAD 83 NSRS. VERTICAL DATUM IS BASED ON NAVD 88, GEOID 09. RIGHT-OF-WAY SHOWN IS APPROXIMATE BASED ON FIELD MONUMENTATION AND MUST BE VERIFIED. PROPERTY LINES
- 2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THESE DRAWINGS, THE LATEST EDITION OF THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION (NCDOT) ROADWAY STANDARD DRAWINGS AND SPECIFICATIONS, RULES GOVERNING PUBLIC WATER SYSTEMS (NCDENR PWSS), AND NCDENR TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION WORK AREA PROTECTION MANUAL. THE CONTRACTOR SHALL MAINTAIN A COPY OF THE CONTRACT DRAWINGS, PROJECT MANUAL, AND THE LATEST EDITION OF THE SPECIFICATIONS AT THE PROJECT SITE AT ALL TIMES DURING CONSTRUCTION.
- 3. THE LOCATION, DIMENSIONS, AND ELEVATION OF EXISTING STRUCTURES, PIPING, AND UTILITIES SHOWN ARE BASED ON THE BEST AVAILABLE DATA AND ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY ALL DATA IN THE FIELD PRIOR TO CONSTRUCTION TO HIS OWN SATISFACTION. THE DIAMETERS OF EXISTING PIPING ARE APPROXIMATE AND SHALL BE VERIFIED PRIOR TO PERFORMING FINAL CONNECTIONS. THE CONTRACTOR SHALL PERFORM ANY TEST PIT WORK OR PROVIDE LOCATION SERVICES AS REQUIRED TO AVOID CONFLICTS WITH EXISTING UTILITIES. CONTACT NORTH CAROLINA ONE—CALL AT TELEPHONE NO. 1-800-632-4949, 48 HOURS PRIOR TO PERFORMING ANY EXCAVATION TO HAVE UTILITIES MARKED.
- 4. CHANGES IN NEW PIPING OR STRUCTURES FROM THAT SHOWN ON THE DRAWINGS, IN ORDER TO AVOID CONFLICTS WITH EXISTING ELECTRICAL SYSTEMS, MECHANICAL SYSTEMS, EQUIPMENT, STRUCTURES, OR EXISTING PIPING, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, WHETHER THE CONFLICTS ARE SHOWN OR ARE DISCOVERED IN THE FIELD. LIKEWISE, ALTERATIONS TO EXISTING ELECTRICAL SYSTEMS, MECHANICAL SYSTEMS, EQUIPMENT, OR EXISTING PIPING IN ORDER TO ACCOMMODATE NEW PIPING, STRUCTURES AND EQUIPMENT, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. THE OWNER AND THE ENGINEER MUST APPROVE ALL SUCH CHANGES.
- 5. MAINTAIN AND PROTECT ALL OVERHEAD AND UNDERGROUND ELECTRICAL, TELEPHONE, CABLE TV, WATER, AND ALL OTHER UTILITIES DURING ENTIRE CONSTRUCTION PERIOD. SEPTIC SYSTEM AND WATER SERVICE INTERRUPTIONS AND OTHER UTILITY OUTAGES WILL NOT BE ALLOWED.
- 6. ALL PROPOSED WATER LINE AND SEWER FORCEMAIN PIPING SHALL MAINTAIN A MINIMUM COVER OF 3.0 FEET, PROPOSED WATER LINE AND SEWER FORCEMAIN PIPING SHALL BE INSTALLED AS REQUIRED TO ALLOW FOR MINIMUM 18" VERTICAL SEPARATION BETWEEN NEW PIPING AND EXISTING UTILITIES.
- 7. PROVIDE A MINIMUM OF 18 INCHES CLEARANCE BETWEEN PIPING AND FOOTINGS, STRUCTURES, AND OTHER PIPING UNLESS OTHERWISE INDICATED. A POSITIVE GRADE SHALL BE MAINTAINED FOR THE VERTICAL ALIGNMENT OF ALL WATER AND SEWER FORCEMAIN PIPING TO ELIMINATE THE FORMATION OF
- 8. GATE VALVES AND VALVE BOXES: PROVIDE AN EXTENDED VALVE STEM WHERE DEPTH TO TOP OF VALVE EXCEEDS 5 FEET.
- 9. HORIZONTAL DISTANCE IS INDICATED FOR ALL PROPOSED PIPE LENGTHS SHOWN ON THE DRAWINGS. DEFLECT PIPE JOINTS AS REQUIRED TO MAINTAIN WATERLINE AND FORCEMAIN ALIGNMENTS SHOWN. THE CONTRACTOR SHALL PROVIDE ALL PIPE FITTINGS AS REQUIRED FOR COMPLETE AND OPERABLE PIPE
- 10. CONTRACTOR SHALL PROVIDE ALL CONNECTING PIPES AND TRANSITION PIECES REQUIRED TO MAKE FINAL PIPING CONNECTIONS.
- 11. VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE CONSTRUCTED AND MAINTAINED FOR ALL DISTURBED AREAS IN ACCORDANCE WITH ALL LOCAL REQUIREMENTS AND THE LATEST EDITION OF THE NORTH CAROLINA EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL. ALL EROSION AND SEDIMENTATION CONTROL DEVICES SHALL BE INSTALLED AS A FIRST STEP IN CONSTRUCTION AND BEFORE EXCAVATION BEGINS. SILT FENCE, CULVERT INLET PROTECTION, INLET PROTECTION, AND OTHER EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED TO PREVENT THE MOVEMENT OF SEDIMENT DOWNSTREAM.
- 12. CONSTRUCTION LIMITS SHALL INCLUDE ALL DISTURBED AREAS. ALL GRASSED DISTURBED AREAS SHALL BE SEEDED AND PROVIDED WITH EROSION CONTROL DURING AND AT THE END OF CONSTRUCTION. ALL WORK SHALL BE PERFORMED WITHIN THE NCDOT RIGHT OF WAY. WORK OUTSIDE OF THE RIGHT OF WAY
- 13. UNLESS OTHERWISE NOTED, REMOVE AND DISPOSE OF ALL ITEMS INDICATED TO BE DEMOLISHED OFF THE OWNER'S PROPERTY IN ACCORDANCE WITH ALL
- 14. THE CONTRACTOR SHALL BE FULLY LIABLE FOR REPAIR OF ANY DAMAGES ON PUBLIC OR PRIVATE PROPERTY CAUSED BY HIS CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL REPLACE ALL DISTURBED SURFACES IN KIND, INCLUDING PAVEMENT, STONE, DITCHES, MAILBOXES, STORM CULVERTS, DRIVEWAY CULVERTS, ETC. CONTRACTOR SHALL REPLACE ROADSIDE SHOULDERS, DITCHES, FILL SLOPES/CUTS TO STABILIZED PRECONSTRUCTION CONDITIONS. ROADSIDE LANDSCAPING SHALL BE PROTECTED AS MUCH AS POSSIBLE. CULVERTS SHALL BE BACKFILLED AND PROPERLY COMPACTED PER NODOT SPECIFICATION. CULVERT ENDS SHALL BE GRADED WITH POSITIVE DRAINAGE WITH SUFFICIENT EROSION AND SEDIMENT CONTROLS INSTALLED. PRIVATE ENTRANCE CULVERTS SHALL BE MAINTAINED FOR POSITIVE ROADSIDE DRAINAGE. ANY IMPACTED PRIVATE ENTRANCE CONCRETE APRONS SHALL BE
- 15. THE CONTRACTOR SHALL PROTECT EXISTING PAVED SURFACES. ANY DAMAGED PAVEMENT SHALL BE REPAIRED TO MATCH EXISTING. TRACKED EQUIPMENT WILL NOT BE ALLOWED ON PAVED SURFACES. ANY PAVEMENT MARKINGS DAMAGED BY CONSTRUCTION SHALL BE REPLACED IN KIND BY A PAVEMENT MARKING CONTRACTOR FROM THE NCDOT PRE-QUALIFICATION LIST.
- 16. ALL PROPERTY PINS, AND RIGHT OF WAY MONUMENTS DISTURBED DURING CONSTRUCTION SHALL BE REPLACED BY A LAND SURVEYOR LICENSED BY THE
- 17. ALL CONSTRUCTION ACTIVITIES ASSOCIATED WITH WORKING IN OR CROSSING A LIVE STREAM SHALL BE UNDER THE JURISDICTIONAL AUTHORITY OF THE U.S. ARMY CORPS OF ENGINEERS. THE CONTRACTOR SHALL COMPLY WITH ALL CONDITIONS IN THE APPLICABLE CORPS NATIONWIDE PERMITS, AS WELL AS ALL
- 18. SURFACE DRAINAGE: COMPLETELY DRAIN CONSTRUCTION SITE DURING PERIODS OF CONSTRUCTION TO KEEP SOIL MATERIALS SUFFICIENTLY DRY. PROVIDE TEMPORARY DITCHES, SWALES, AND OTHER DRAINAGE FEATURES AND EQUIPMENT AS REQUIRED TO MAINTAIN DRY SOILS. WHEN UNSUITABLE WORKING PLATFORMS FOR EQUIPMENT OPERATION AND UNSUITABLE SOIL SUPPORT FOR SUBSEQUENT CONSTRUCTION FEATURES DEVELOP, REMOVE UNSUITABLE MATERIAL AND PROVIDE NEW SOIL MATERIAL AS SPECIFIED IN SPEC. SECTION 02200 AT NO ADDITIONAL COST TO THE OWNER.
- 19. SUBSURFACE DRAINAGE: CONSIDER SITE SURFACE AND SUBSURFACE CONDITIONS, AVAILABLE SOIL, AND HYDROLOGICAL DATA. REMOVE WATER BY BENCHING, SUMP PUMPING, OR OTHER METHODS TO PREVENT SOFTENING OF SURFACES EXPOSED BY EXCAVATION, USE FILTERS ON DEWATERING DEVICES
- O PREVENT REMOVAL OF FINES FROM SOIL, PROVIDE EROSION CONTROL AT OUTLET OR PIPING TO PREVENT EROSION. OPERATE DEWATERING SYSTEM CONTINUOUSLY UNTIL CONSTRUCTION WORK BELOW EXISTING WATER LEVELS IS COMPLETE. 20. CONSTRUCT EXCAVATION SUPPORT SYSTEMS AS REQUIRED BY OSHA AND U.S. ARMY CORPS OF ENGINEERS SAFETY AND HEALTH REQUIREMENT MANUAL EM 385-1-1, SECTION 25 AS A THROUGH E TO ADEQUATELY SUPPORT EXISTING SOIL AND ADJACENT STRUCTURES DURING EXCAVATION ACTIVITIES.
- 21. MAINTAIN TRAFFIC TO ALL PROPERTIES AT ALL TIMES DURING CONSTRUCTION ACTIVITIES. WHENEVER CONSTRUCTION IS IN OR ADJACENT TO NCDOT STREETS, THE CONTRACT SHALL PROVIDE SIGNS, DRUMS, AND TRAFFIC CONTROL DEVICES AS DIRECTED BY THE OWNER'S REPRESENTATIVE. ALL SIGNS AND TRAFFIC CONTROL SHALL CONFORM TO THE CURRENT MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) FOR STREETS AND HIGHWAYS AS PUBLISHED BY THE U.S. DEPT. OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION, AND THE WORK AREA PROTECTION MANUAL. CONTRACTOR SHALL TEMPORARILY RELOCATE TRAFFIC RELATED SIGNAGE DURING CONSTRUCTION.
- 22. THE CONTRACTOR SHALL CONNECT ALL RESIDENCES ALONG THE PROPOSED WATERLINE ALIGNMENT TO THE PROPOSED WATERLINE WITH NEW WATER LATERALS, VALVES, METER BOX, AND APPURTENANCES WHETHER OR NOT SHOWN ON THE PLANS. THE COUNTY WILL PROVIDE THE METER AND RADIO READ REGISTER. THE HOUSE PLUMBING SHALL BE CONNECTED TO THE NEW METER. EXISTING WELLS SHALL BE ABANDONED BY OTHERS.

8 MP

CHECKED BY

6/3/11 SHEET

